



JANUARY 29, 2002

PTAS  
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Under Secretary of Commerce For Intellectual Property and  
Director of the United States Patent and Trademark Office  
Washington, DC 20231  
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UNITED STATES PATENT AND TRADEMARK OFFICE  
NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, CG-4, 1213 JEFFERSON DAVIS HWY, SUITE 320, WASHINGTON, D.C. 20231.

RECORDATION DATE: 11/29/2001

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BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:

CHO, TAE-HEE

DOC DATE: 11/08/2001

ASSIGNOR:

LIM, YOUNG-HO

DOC DATE: 11/08/2001

ASSIGNEE:

SAMSUNG ELECTRONICS CO., LTD.  
416 MAETAN-DONG, PALDAL-KU, SUWON-  
CITY  
KYUNGKI-DO, REPUBLIC OF KOREA

SERIAL NUMBER: 09997533  
PATENT NUMBER:

FILING DATE: 11/29/2001  
ISSUE DATE:

TONYA LEE, EXAMINER  
ASSIGNMENT DIVISION  
OFFICE OF PUBLIC RECORDS

MAR 11-29-01  
IN THE UNITED STATES

12-07-2001

PATENT APPLICATION  
torney's Do. No. 4591-238

BOX PATENT APPLICATION  
U.S. Patent & Trademark Office  
P.O. Box 2327  
Arlington, VA 22202

101909981

JE564 U.S. PTO  
09/997533  
11/29/01

Please record the attached original document or copy thereof and return the recorded instrument to the undersigned.

1. Name of party conveying an interest: Tae-Hee CHO and Young-Ho LIM
2. Name and address of party receiving an interest: Samsung Electronics Co., Ltd.  
416 Maetan-dong, Paldal-ku, Suwon-City  
Kyungki-do KOREA

3. Description of the interest conveyed:  
☒ Assignment ☐ Change of Name ☐ Security Agreement ☐ Merger

Date of execution of attached document: November 8, 2001

4. Application number(s) or patent number(s). Additional sheet attached? Yes \_\_\_ No X

If this document is being filed together with a new application, the execution date of the application is:  
November 29, 2001.

A. Patent Application No. Filed Herewith

B. Patent No.

09 997533

5. Name and address of party to whom correspondence concerning document should be mailed:

Alan T. McCollom  
MARGER JOHNSON & McCOLLOM, P.C.  
1030 S.W. Morrison Street  
Portland, Oregon 97205  
Telephone: (503) 222-3613

6. Number of applications and patents involved: 1
7. PTO Form 2038 authorizing credit card payment (\$40) is enclosed.
8. Any deficiency or overpayment should be charged or credited to deposit account number 13-1703.
9. To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

Dated: November 29, 2001

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Respectfully submitted,  
MARGER JOHNSON & McCOLLOM, P.C.

*Alan T. McCollom*

Alan T. McCollom  
Reg. No. 28,881

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Total number of pages comprising  
cover sheet and attached assignment: 3

PATENT APPLICATION  
Atty's Do. No. 4591-238  
Koryo Ref. No.:ID11026-US

### ASSIGNMENT

U.S.A. Patent Application  
Sole or Joint  
For Inventions Made Outside U.S.A.  
Executed With Application

In consideration of the sum of Ten Dollars (10.00) and other good and valuable considerations paid to each of the undersigned, to wit:

- (1) **Tae-Hee CHO**
- (2) **Young-Ho LIM**

☐ X if continued on separate page

the receipt and sufficiency of which are hereby acknowledged by the undersigned who hereby sell(s), assign(s) and transfer(s) unto:

**SAMSUNG ELECTRONICS CO., LTD.**  
**416 MAETAN-DONG, PALDAL-KU**  
**SUWON-CITY, KYUNGKI-DO**  
**REPUBLIC OF KOREA**

(hereinafter designated "ASSIGNEE") the entire right, title and interest for the United States Of America as defined in 35 U.S.C. §1.00, in and to the invention known as:

### **NON-VOLATILE SEMICONDUCTOR MEMORY DEVICE WITH TIME-VISION SENSE FUNCTION AND READ METHOD THEREOF**

for which an application for Letters Patent of the United States of America has been executed even date herewith by the undersigned, and in and to any and all divisionals, continuations, substitutes, and reissues thereof; and all resulting patents and the undersigned hereby authorizes and requests the United States Assistant Commissioner of Patents to issue said Letters Patent to the said ASSIGNEE, for its interest as ASSIGNEE, its successors, assigns and legal representatives; the undersigned agrees that the attorneys of record in said application shall hereafter act on behalf of said ASSIGNEE;

And the undersigned hereby agrees to testify and execute any papers for ASSIGNEE, its successors, assigns and legal representatives, deemed essential by ASSIGNEE to ASSIGNEE'S full protection and title in and to the invention hereby transferred.

Please sign  
concurrently  
with Oath or Declaration  
and Power of Attorney

SIGNED ON THE DATES INDICATED BESIDE OUR SIGNATURES:

<u>INVENTOR(S)</u>	<u>DATE SIGNED</u>	<u>WITNESSED</u>
(1) <u>Taehee Cho</u> Tae-Hee CHO	<u>Nov. 8, 2001</u>	_____
(2) <u>Young-Ho LIM</u> Young-Ho LIM	<u>Nov - 8, 2001</u>	_____

FOR ADDITIONAL INVENTORS, "X" BOX ☐ AND CONTINUE ON SEC- 2.005

PLEASE RETURN RECORDED ASSIGNMENT TO:

Alan T. McCollom  
Marger Johnson & McCollom  
1030 S.W. Morrison Street  
Portland, OR 97205

COMBINED DECLARATION AND POWER OF ATTORNEY  
FOR PATENT APPLICATION

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name.

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled NON-VOLATILE SEMICONDUCTOR MEMORY DEVICE WITH TIME-VISION SENSE FUNCTION AND READ METHOD THEREOF, the specification of which:

☒ is attached hereto.  
☐ was filed on \_\_\_\_\_ as Application No. \_\_\_\_\_  
☐ and was amended on \_\_\_\_\_ (if applicable)  
☐ with amendments through \_\_\_\_\_ (if applicable).

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is material to the patentability of this application in accordance with Title 37, Code of Federal Regulations, Sec. 1.56.

I hereby claim foreign priority benefits under Title 35, United States Code, Sec. 119 (a)-(d) or §365(b) of any foreign application(s) for patent or inventor's certificate, or §365(a) of any PCT international application which designated at least one country other than the United States of America, listed below and have also identified below any foreign application for patent or inventor's certificate, or of any PCT international application having a filing date before that of the application on which priority is claimed:

Prior Foreign Application(s)

2001-42319  
(Number)

Republic of Korea  
(Country)

13 July 2001  
(Day/Month/Year Filed)

Claiming  
Priority?

☒ Yes ☐ No

I hereby claim the benefit under Title 35, United States Code, Sec. 119(e) of any United States provisional application listed below:

Provisional Application No.

Filing Date

I hereby claim the benefit under Title 35, United States Code, Sec. 120 or §365(c) of any PCT international application designating the United States of America listed below and,

insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35, United States Code, Sec. 112, I acknowledge the duty to disclose information which is material to patentability as defined in Title 37, Code of Federal Regulations, Sec. 1.56 which occurred between the filing date of the prior application and the national or PCT international filing date of this application:

<u>(Application No.)</u>	<u>(Filing Date)</u>	<u>(Status) (patented, pending, abandoned)</u>
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I hereby appoint the following attorneys to prosecute the application, to file a corresponding international application, to prosecute and transact all business in the Patent and Trademark Office connected therewith:



20575

PATENT TRADEMARK OFFICE

<u>Attorney Name</u>	<u>Registration No.</u>
Jerome S. Marger	26,480
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Alan T. McCollom	28,881
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MARGER JOHNSON & McCOLLOM, P.C.  
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Portland, Oregon 97205

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

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Full name of sole or first inventor: Tae-Hee CHO

Inventor's signature: Taehee Cho

Nov. 8, 2001  
(Date)

Residence: Kyunggi-do, Republic of Korea

Citizenship: Republic of Korea

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Full name of second joint inventor: Young-Ho LIM

Inventor's signature: Young-Ho LIM

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(Date)

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